

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



Office de la Propriété  
Intellectuelle  
du Canada  
Un organisme  
d'Industrie Canada

Canadian  
Intellectual Property  
Office  
An agency of  
Industry Canada

CA 2354363 A1 2003/01/30

(21) 2 354 363

(12) DEMANDE DE BREVET CANADIEN  
CANADIAN PATENT APPLICATION

(13) A1

(22) Date de dépôt/Filing Date: 2001/07/30

(41) Mise à la disp. pub./Open to Public Insp.: 2003/01/30

(51) Cl.Int 7/Int.Cl 7 A47C 4/00, A47C 4/28

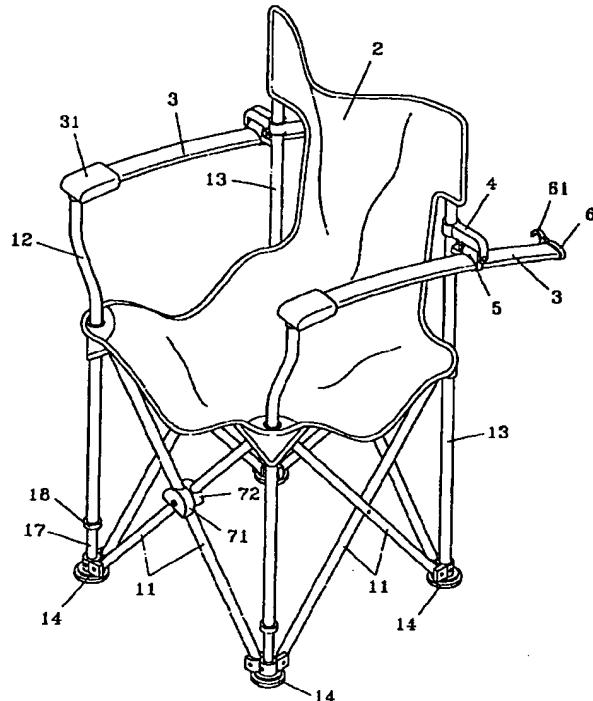
(71) Demandeur/Applicant:  
WU, SHUNG-SEN, TW

(72) Inventeur/Inventor:  
WU, SHUNG-SEN, TW

(74) Agent: RIDOUT & MAYBEE LLP

(54) Titre : FAUTEUIL PLIANT

(54) Title: FOLDING CHAIR



(57) Abrégé/Abstract:

A folding chair has a seat 2, a backrest 3, a pair of armrest plates 31, a pair of front joints 31, a pair of hollow connectors 5, a pair of cantilever arms 4, a pair of end blocks 6, a pair of rear rods 13, a pair of front rods 12, a pair of lower rods 17, four connecting disks 16, and four pedestal mounts 14. Each hollow connector 5 engages with the cantilever arm 4. Each armrest plate 3 passes through the corresponding hollow connector 5. Each cantilever arm 4 has a proximal collar 40. Two ends of each armrest plate 3 are connected to the corresponding front joint 31 and the corresponding end block 6. The connecting disks 16 are disposed on a bottom of the seat 1. Each rear rod 13 passes through the corresponding connecting disk 16 and the corresponding proximal collar 40. Each rear rod 13 is disposed on the corresponding pedestal mount 14. Each front rod 12 passes through the corresponding connecting disk 16 and the seat 1 to engage with the corresponding front joint 31. Each lower rod 17 is inserted in the corresponding front rod 12 and disposed on the corresponding pedestal mount 14.

**TITLE:FOLDING CHAIR****ABSTRACT OF THE DISCLOSURE**

A folding chair has a seat 1, a backrest 2, a pair of armrest plates 3, a pair of front joints 31, a pair of hollow connectors 5, a pair of cantilever arms 4, a pair of end blocks 6, a pair of rear rods 13, a pair of front rods 12, a pair of lower rods 17, four connecting disks 16, and four pedestal mounts 14. Each hollow connector 5 engages with the cantilever arm 4. Each armrest plate 3 passes through the corresponding hollow connector 5. Each cantilever arm 4 has a proximal collar 40. Two ends of each armrest plate 3 are connected to the corresponding front joint 31 and the corresponding end block 6. The connecting disks 16 are disposed on a bottom of the seat 1. Each rear rod 13 passes through the corresponding connecting disk 16 and the corresponding proximal collar 40.

15 Each rear rod 13 is disposed on the corresponding pedestal mount 14. Each front rod 12 passes through the corresponding connecting disk 16 and the seat 1 to engage with the corresponding front joint 31. Each lower rod 17 is inserted in the corresponding front rod 12 and disposed on

20 the corresponding pedestal mount 14.

## TITLE:FOLDING CHAIR

The present invention relates to a folding chair. More particularly, the present invention relates to a folding chair which is operated easily.

A conventional folding chair has two fixed armrests. 05 Since the fixed armrests cannot be folded, the conventional folding chair will occupy a large room while folding.

An object of the present invention is to provide a folding chair which is operated easily.

10 FIG. 1 is a perspective exploded view of a folding chair of a preferred embodiment in accordance with the present invention;

15 FIG. 2 is a perspective assembly view of a folding chair of a preferred embodiment in accordance with the present invention;

FIG. 3 is a schematic view illustrating an armrest plate, a front rod, and a rear rod are extended;

FIG. 4 is a schematic view illustrating a folding operation of a folding chair while folding;

20 FIG. 5 is a schematic view illustrating a hollow connector and a cantilever arm are detached;

FIG. 6 is a schematic view illustrating a folding chair is folded;

FIG. 6A is a partially enlarged view of FIG. 6; and

25 FIG. 7 is a partially sectional view of FIG. 6.

Referring to FIGS. 1 to 7, a folding chair comprises a seat 1, a backrest 2 connected to the seat 1, a pair of armrest plates 3, a pair of front joints 31, a pair of hollow connectors 5, a pair of cantilever arms 4, a 05 pair of end blocks 6, a pair of rear rods 13, a pair of front rods 12, a pair of lower rods 17, a pair of rings 18, four connecting disks 16, four pedestal mounts 14, a male joint 71, a female joint 72, and a plurality of crossing rods 11.

10 Each hollow connector 5 has a protruded block 51.

Each armrest plate 3 passes through the corresponding hollow connector 5.

15 Each cantilever arm 4 has a proximal collar 40 and two downward lugs 41 to engage with the protruded block 51. A rivet 15 fastens the downward lugs 41 and the protruded block 51 together.

Two ends of each armrest plate 3 are connected to the corresponding front joint 31 and the corresponding end block 6.

20 The connecting disks 16 are disposed on a bottom of the seat 1.

Each rear rod 13 passes through the corresponding connecting disk 16 and the corresponding proximal collar 40.

25 Each rear rod 13 is disposed on the corresponding

pedestal mount 14. A rivet 15 fastens the rear rod 13 and the corresponding pedestal mount 14 together.

05 Each front rod 12 passes through the corresponding connecting disk 16 and the seat 1 to engage with the corresponding front joint 31. A rivet 15 fastens the front rod 12 and the corresponding front joint 31 together.

Each lower rod 17 is inserted in the corresponding front rod 12.

10 Each lower rod 17 is disposed on the corresponding pedestal mount 14. A rivet 15 fastens the lower rod 17 and the corresponding pedestal mount 14 together.

15 One crossing rod 11 passes through the male joint 71 and is connected to the corresponding connecting disk 16 and the corresponding pedestal mount 14.

The other crossing rods 11 passes through the female joint 72 and is connected to the corresponding connecting disk 16 and the corresponding pedestal mount 14.

20 The male joint 71 engages with the female joint 72. A rivet 15 fastens the male joint 71 and the female joint 72 together.

Two rings 18 each is disposed on a bottom of the corresponding front rod 12 to confine the corresponding lower rod 17.

25 Each end block 6 has a distal clamp 61.

When the folding chair is folded, each lower rod 17 is extended (as shown in FIG. 6).

When the armrest plates 3 are folded, the folding chair is folded into a compact configuration (as shown 05 in FIG. 6).

## I CLAIM:

1. A folding chair comprising a seat 1, a backrest 2 connected to the seat 1, a pair of armrest plates 3, a pair of front joints 31, a pair of hollow connectors 5, a pair of cantilever arms 4, a pair of end blocks 6, a 05 pair of rear rods 13, a pair of front rods 12, a pair of lower rods 17, four connecting disks 16, and four pedestal mounts 14, characterized in that:

each said hollow connector 5 has a protruded block 51,

10 each said armrest plate 3 passes through the corresponding hollow connector 5,

each said cantilever arm 4 has a proximal collar 40 and two downward lugs 41 to engage with the protruded block 51,

15 two ends of each said armrest plate 3 are connected to the corresponding front joint 31 and the corresponding end block 6,

the connecting disks 16 are disposed on a bottom of the seat 1,

20 each said rear rod 13 passes through the corresponding connecting disk 16 and the corresponding proximal collar 40,

each said rear rod 13 is disposed on the corresponding pedestal mount 14,

25 each said front rod 12 passes through the cor-

responding connecting disk 16 and the seat 1 to engage with the corresponding front joint 31,

each said lower rod 17 is inserted in the corresponding front rod 12, and

05 each said lower rod 17 is disposed on the corresponding pedestal mount 14.

2. The folding chair as claimed in claim 1, wherein a male joint 71 engages with a female joint 72, a crossing rod 11 passes through the male joint 71 and is 10 connected to the corresponding connecting disk 16 and the corresponding pedestal mount 14, and another crossing rods 11 passes through the female joint 72 and is connected to the corresponding connecting disk 16 and the corresponding pedestal mount 14.

15 3. The folding chair as claimed in claim 1, wherein two rings 18 each is disposed on a bottom of the corresponding front rod 12 to confine the corresponding lower rod 17.

4. The folding chair as claimed in claim 1, wherein 20 each said end block 6 has a distal clamp 61.

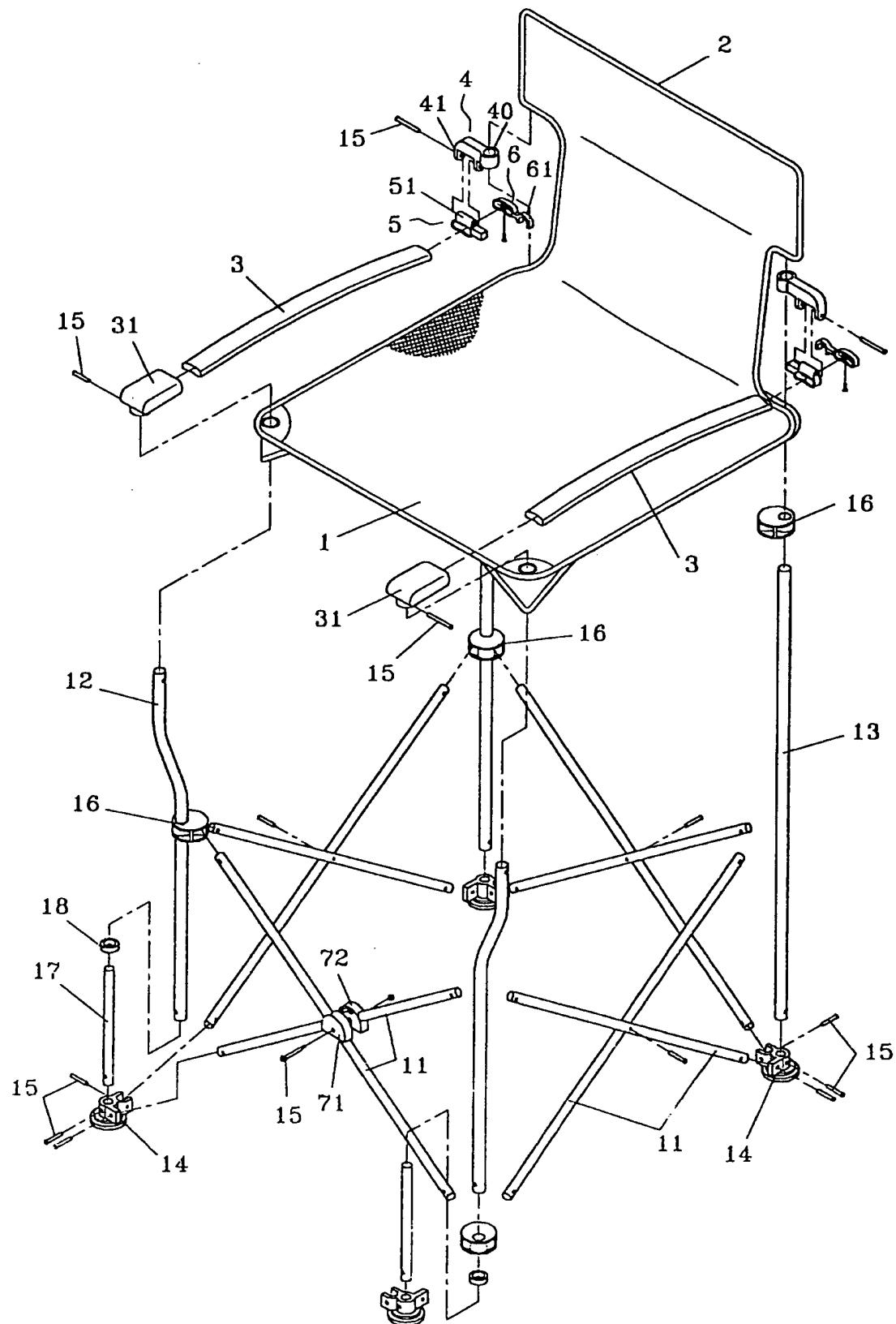


FIG. 1

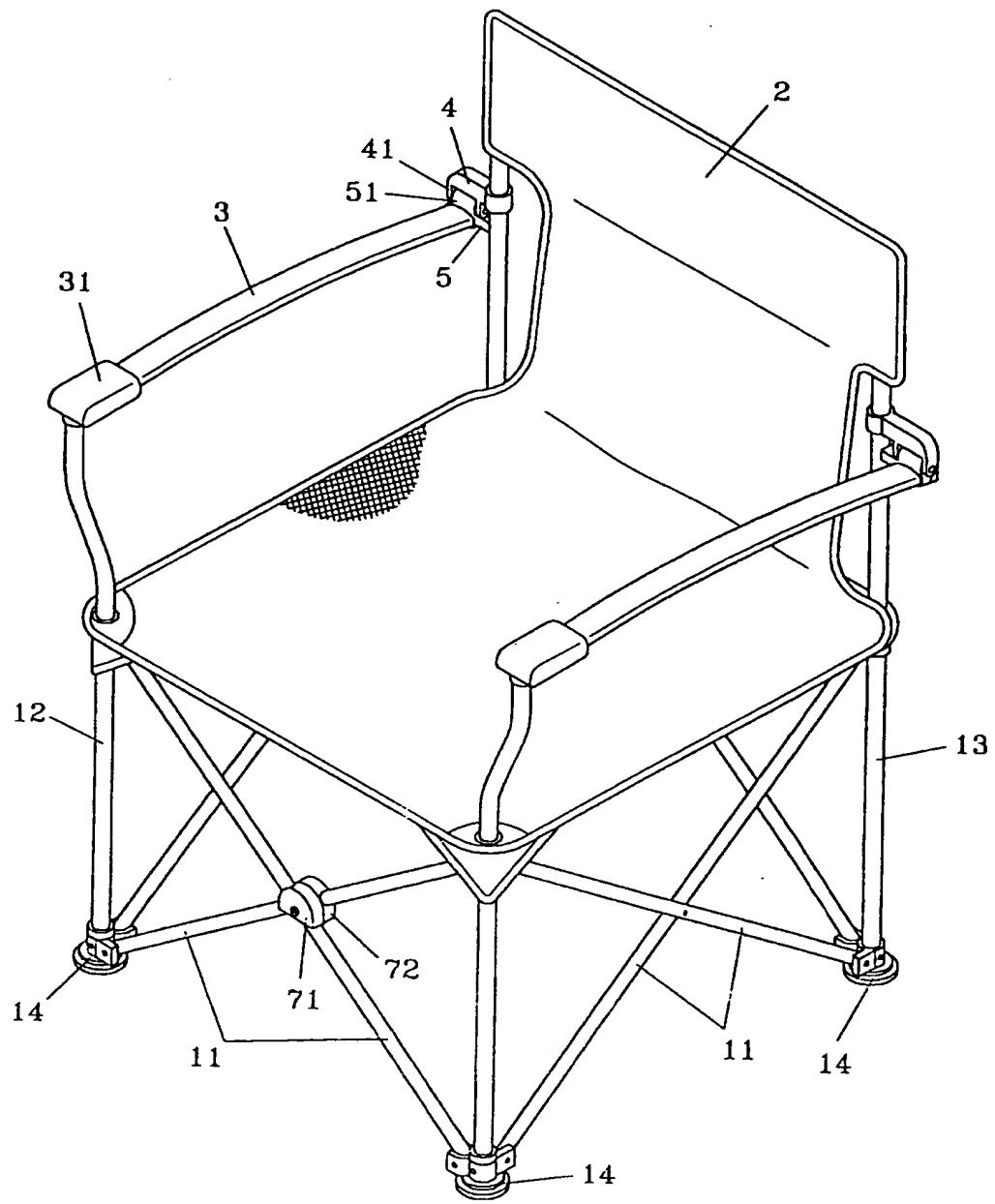


FIG. 2

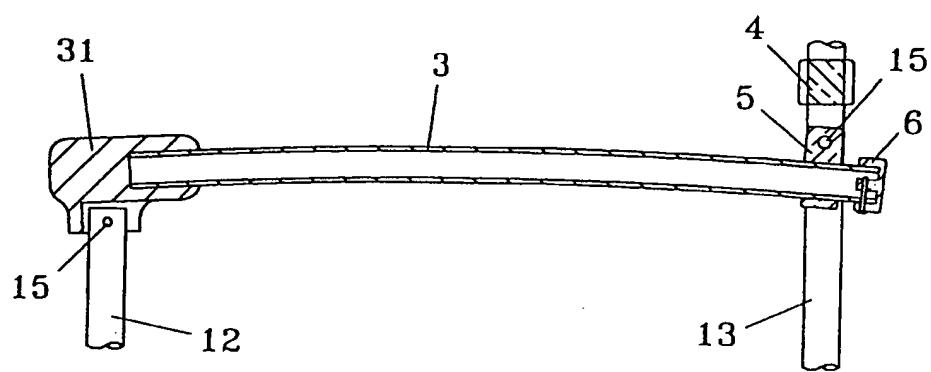


FIG. 3

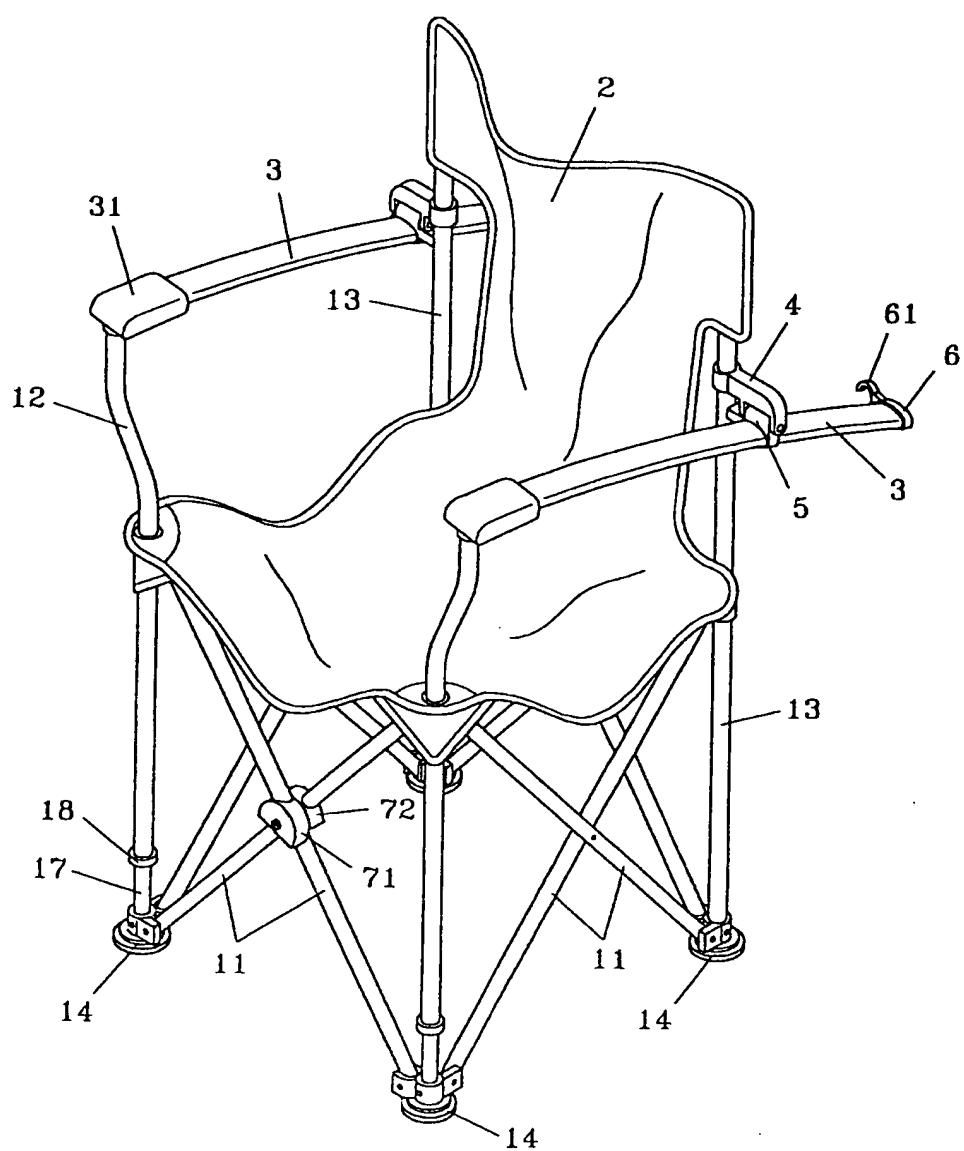


FIG. 4

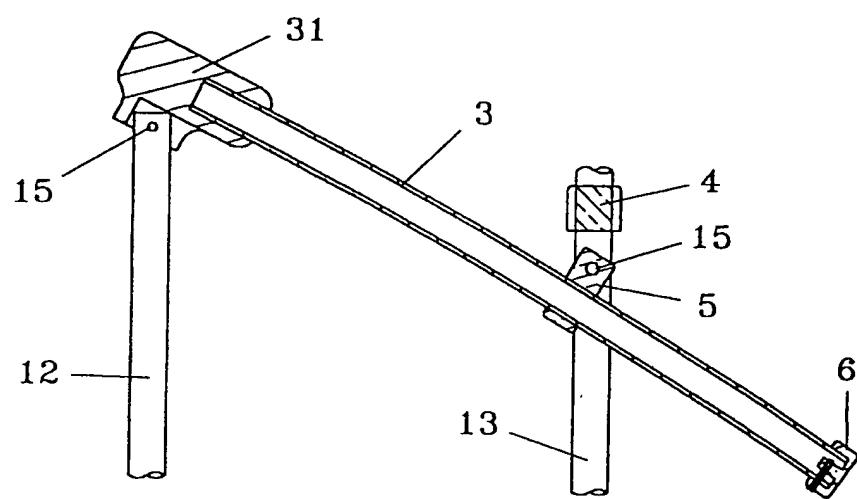


FIG.5

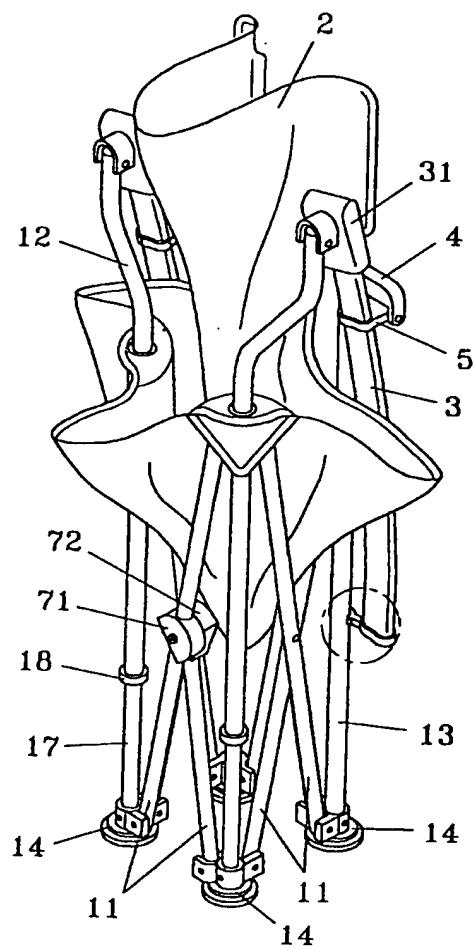


FIG. 6

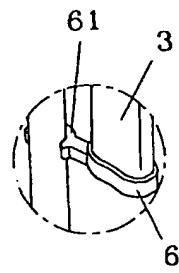


FIG. 6A

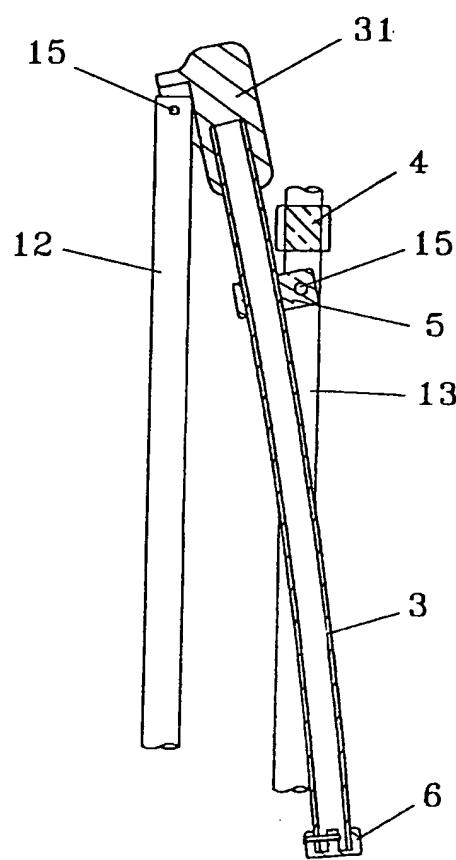


FIG. 7

